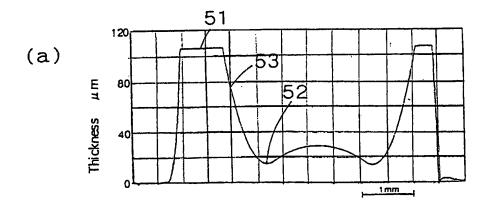
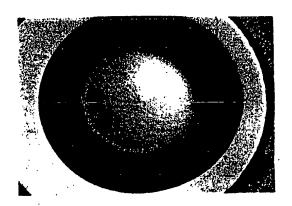


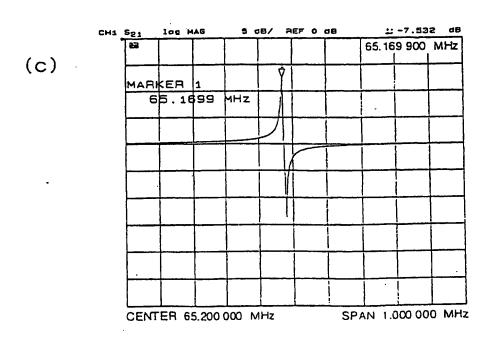
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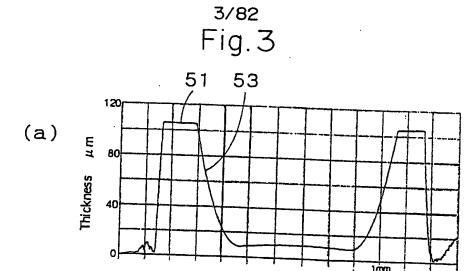
2/82 Fig.2

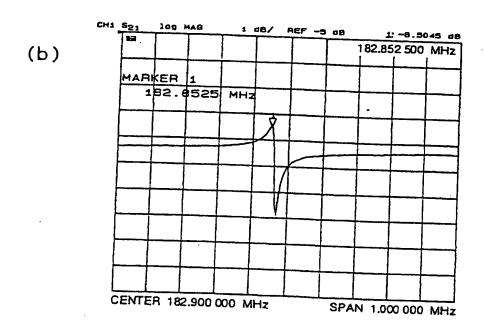


(b)

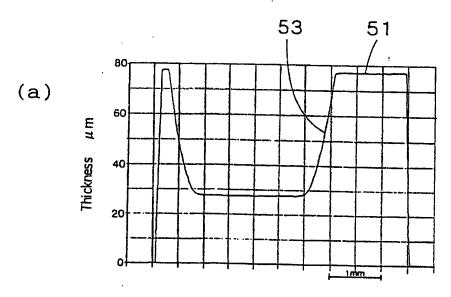


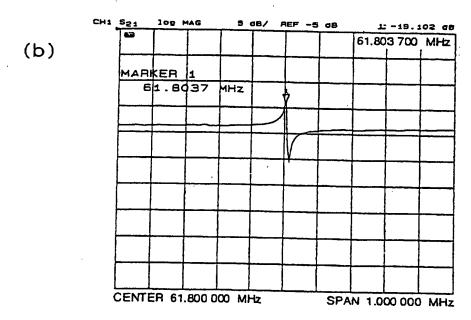


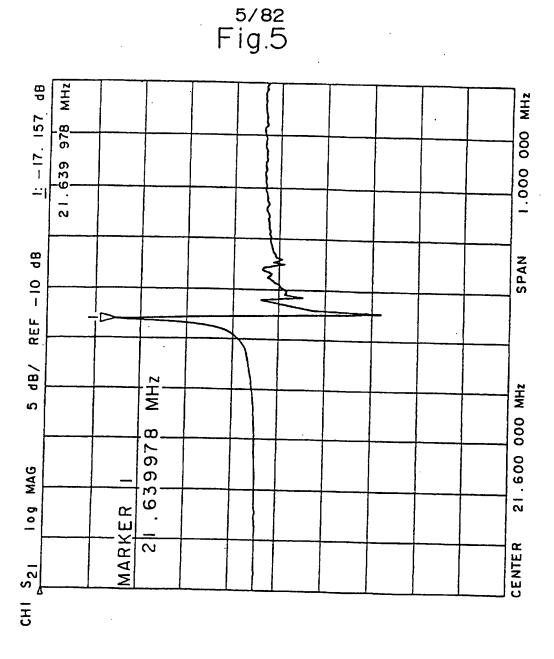


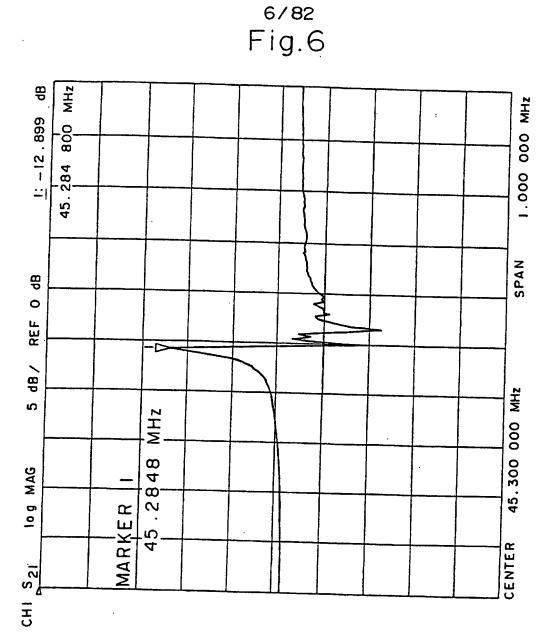


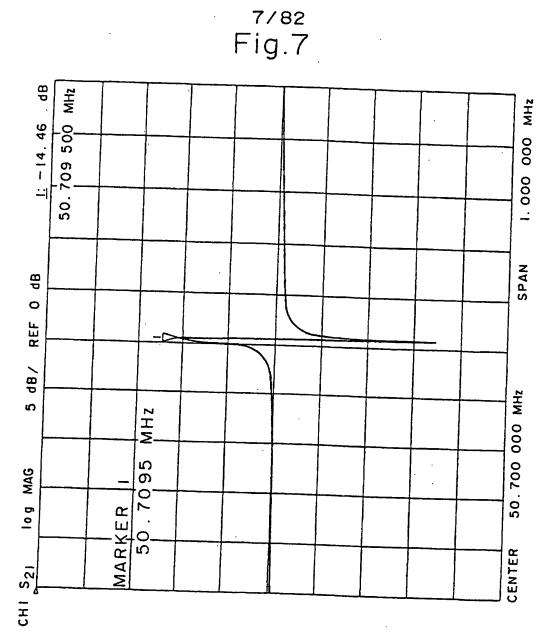


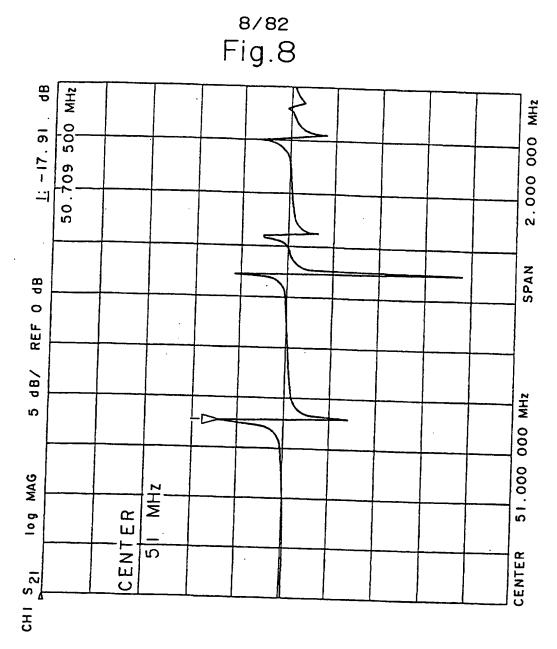






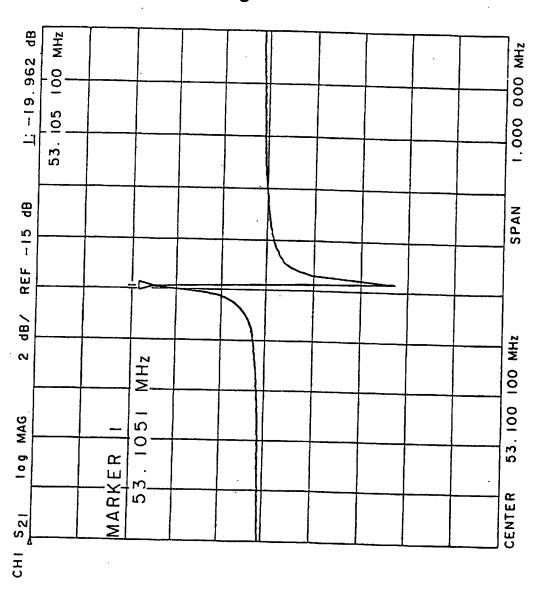




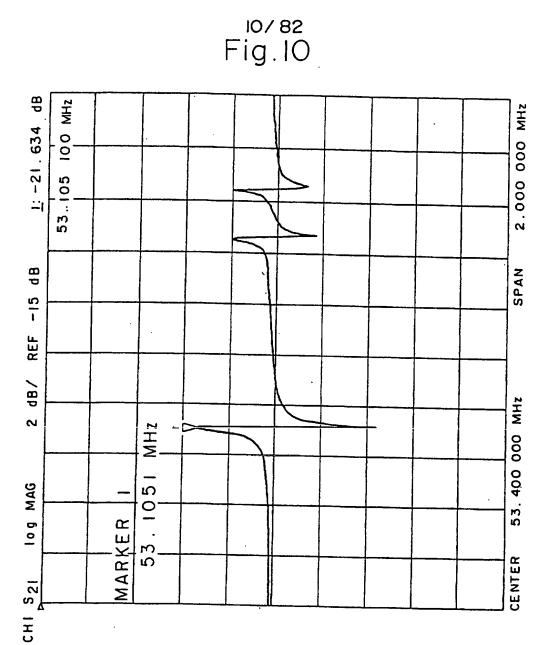


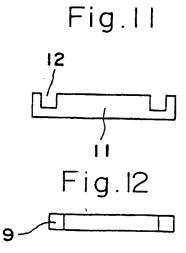


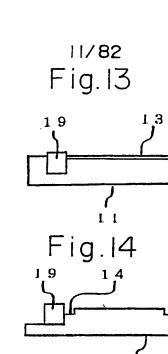
9/82 Fig.9

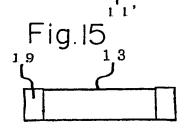


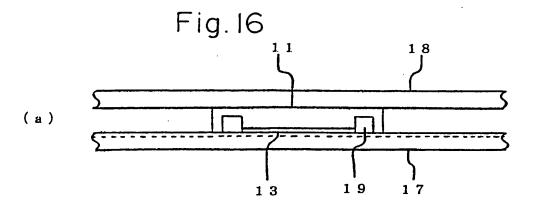
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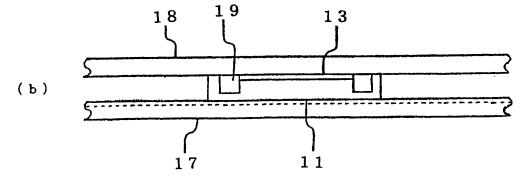




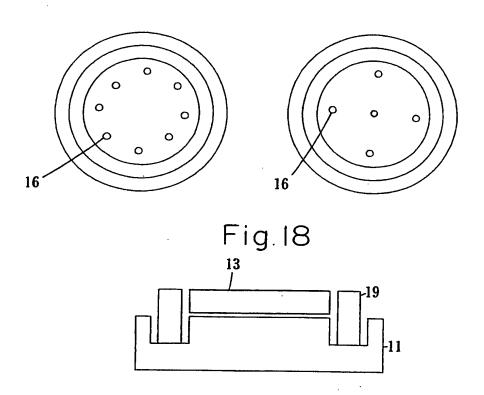


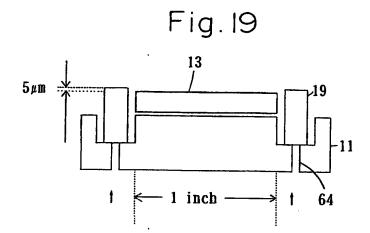




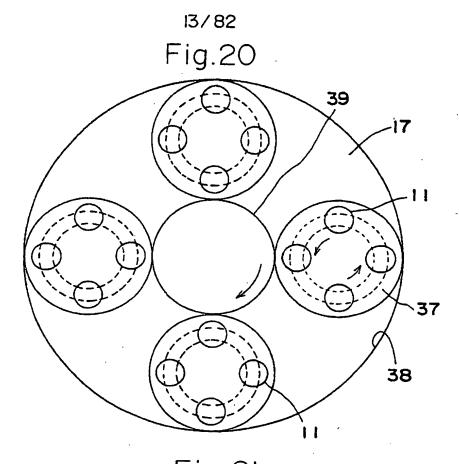


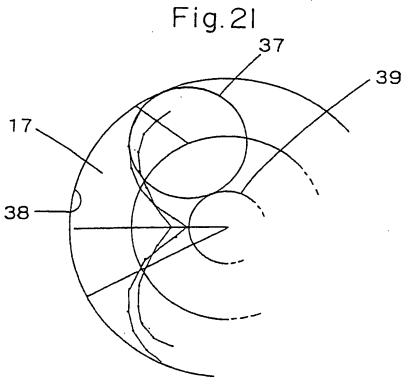




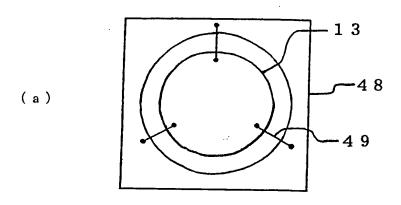


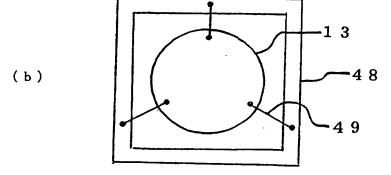


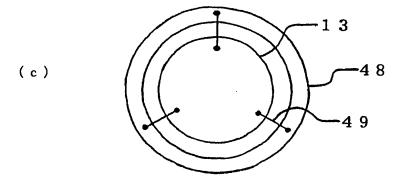


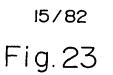


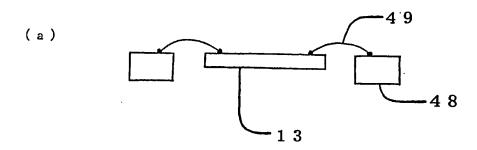












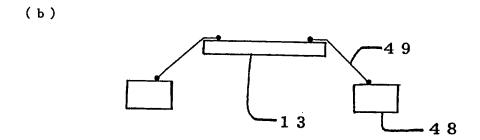
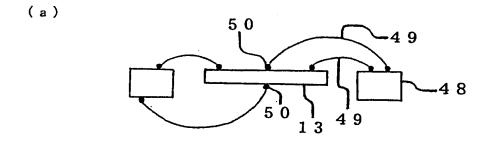
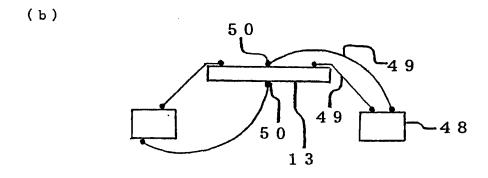
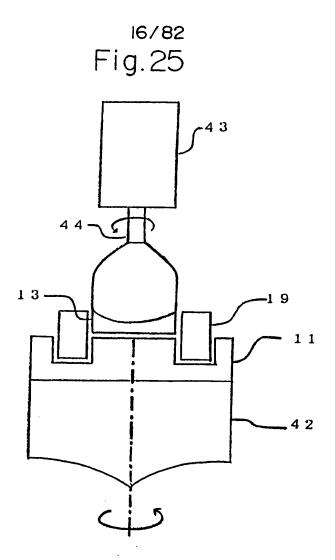
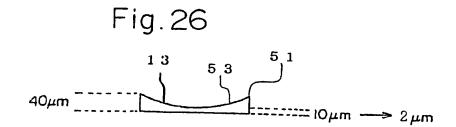


Fig. 24

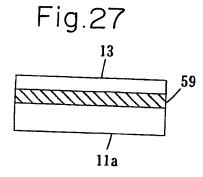


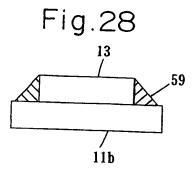


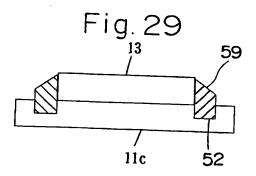


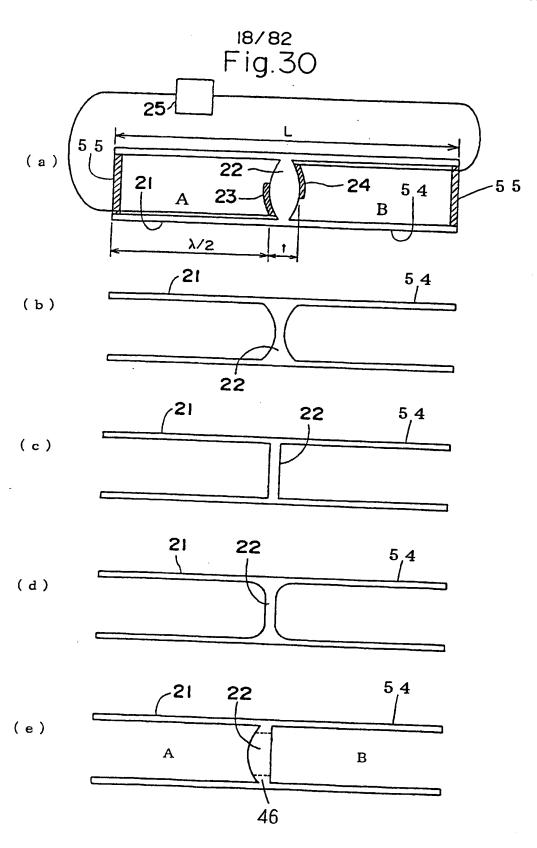


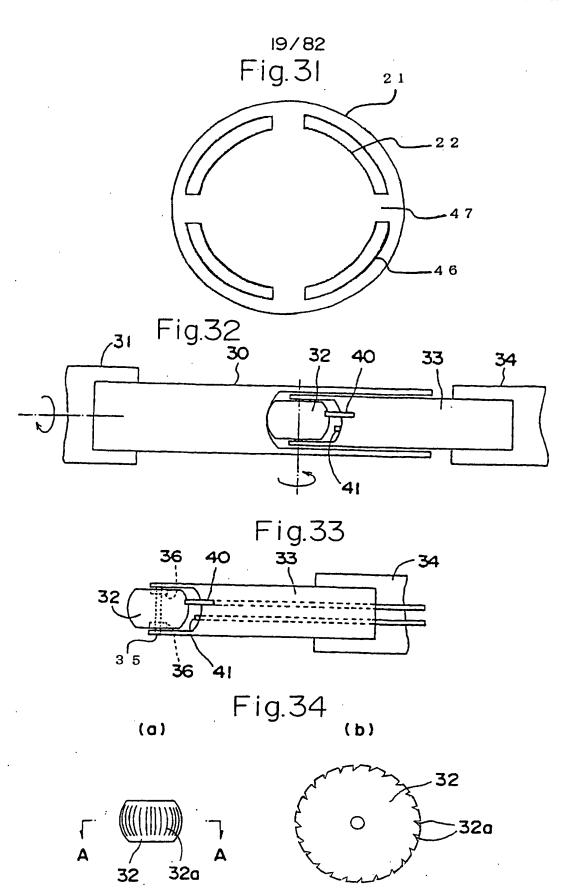


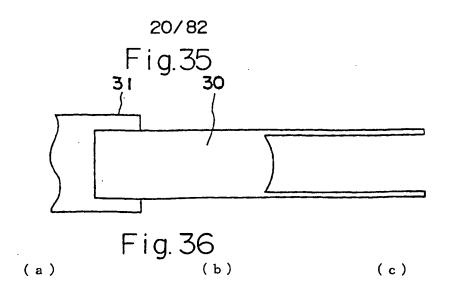


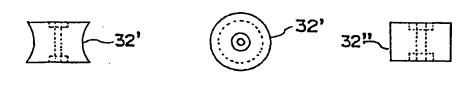












(d) (e)

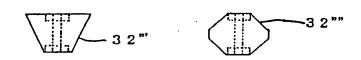
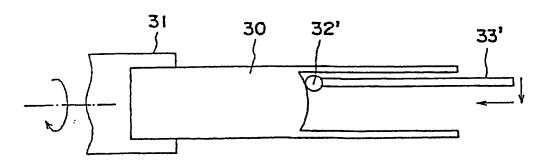
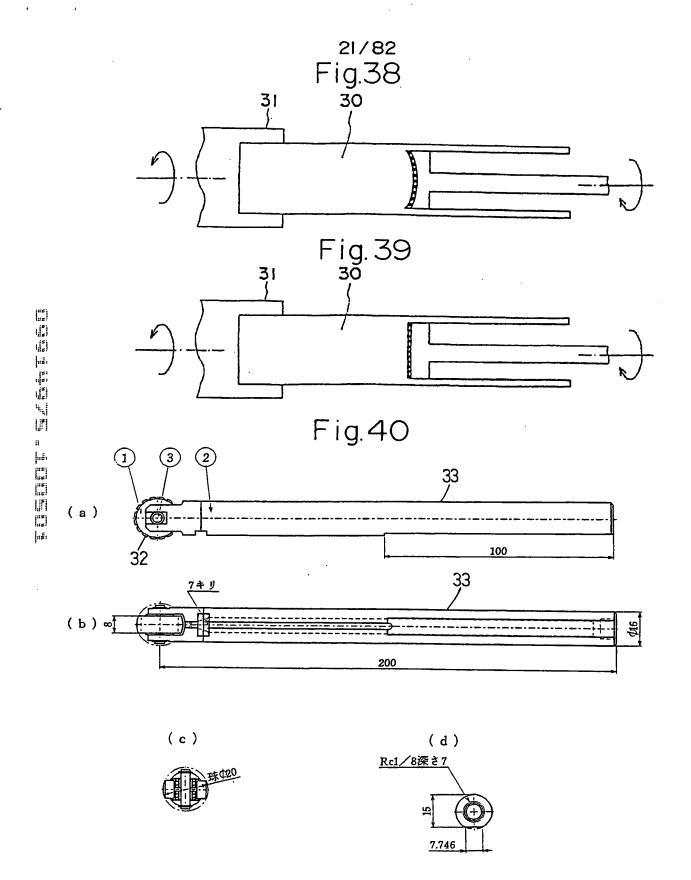
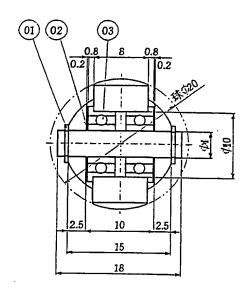


Fig.37





(a)



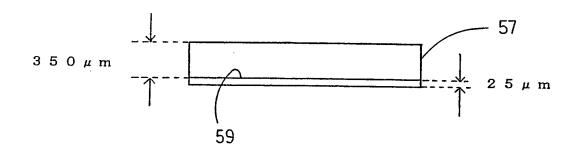
SCALE 1/3

SCALE 1/3

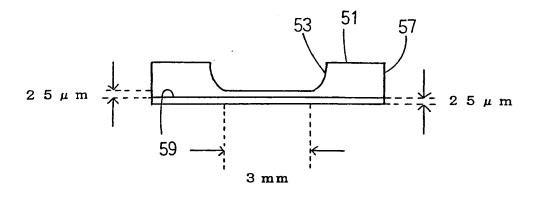
33

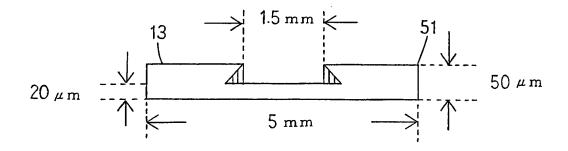
33

33

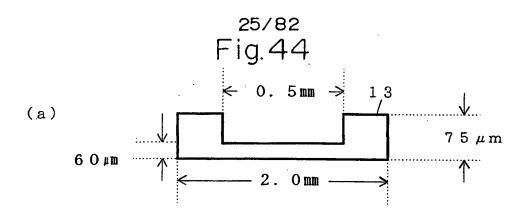


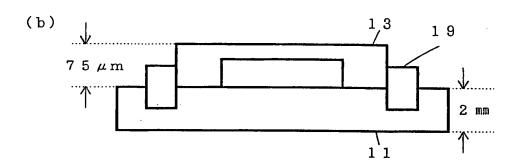
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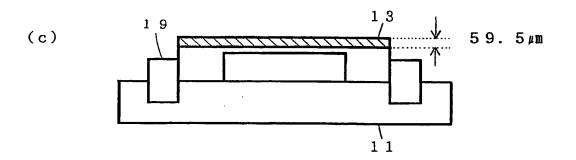


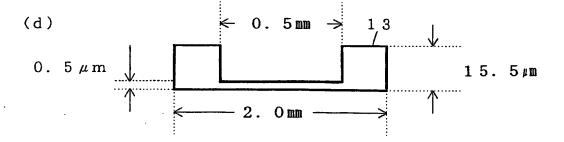


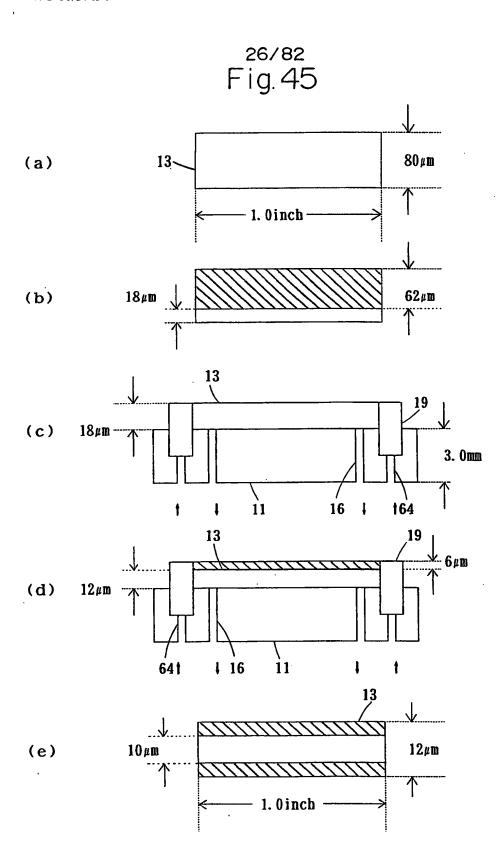
(b)

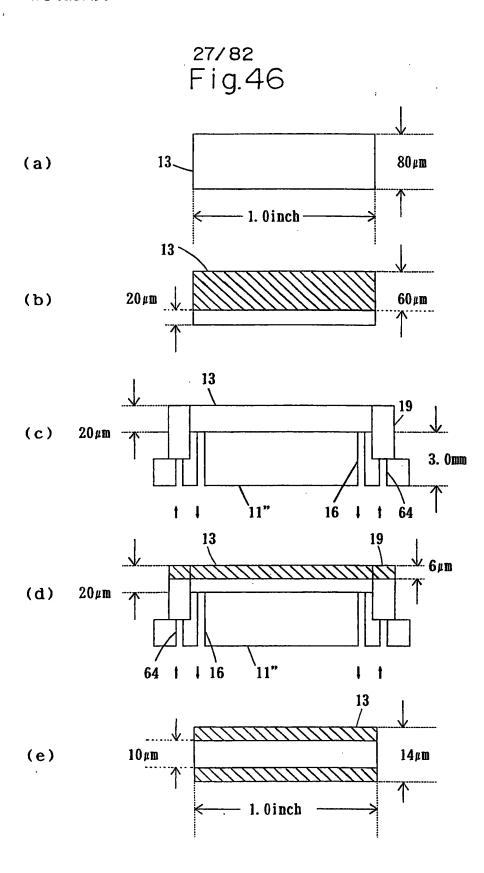


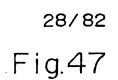


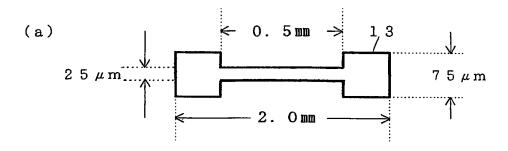


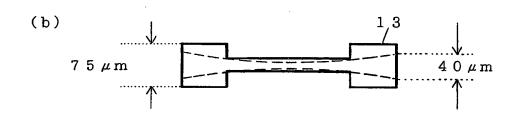


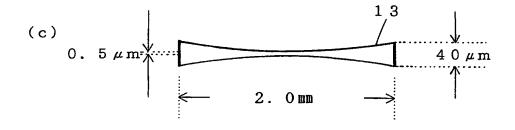




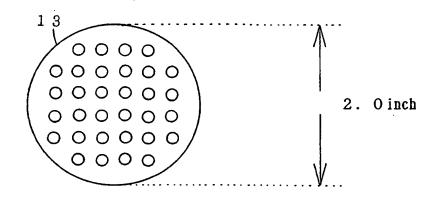




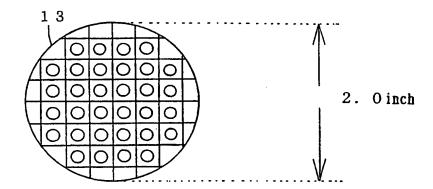




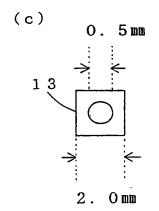
(a)

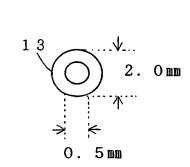


(b)

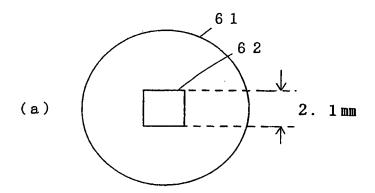


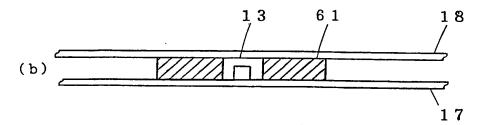
(d)

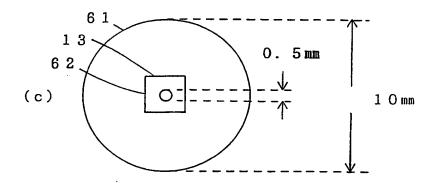


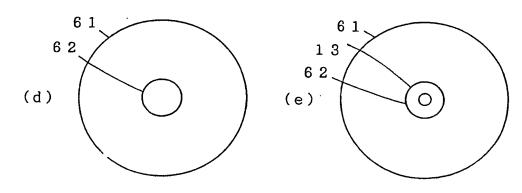


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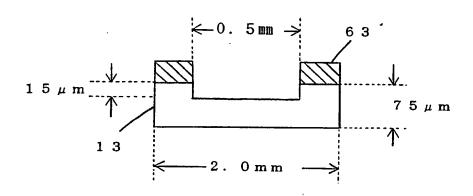






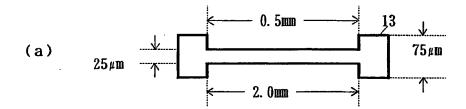
31/82

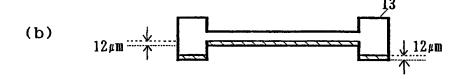
Fig.50

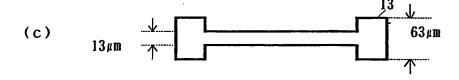


32/82

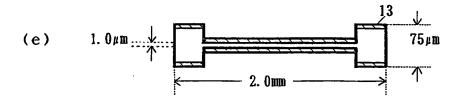
Fig.51

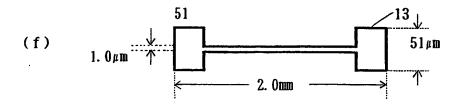






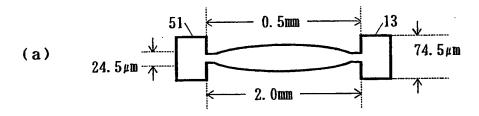


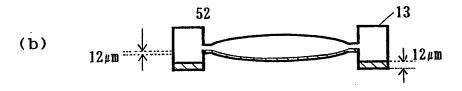


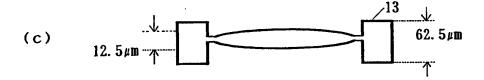


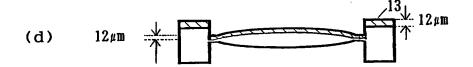
33/82

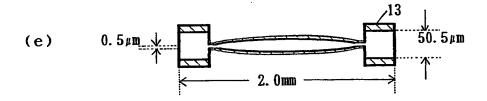
Fig.52

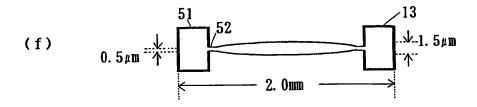


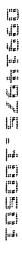


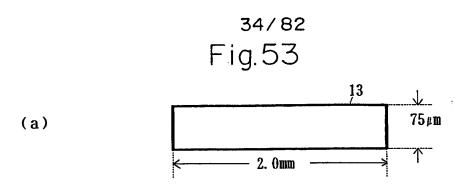


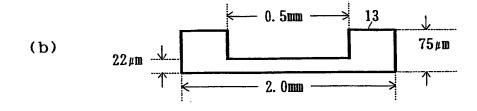


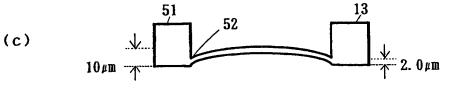


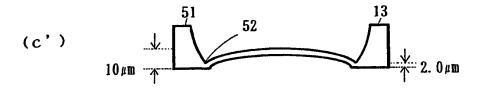




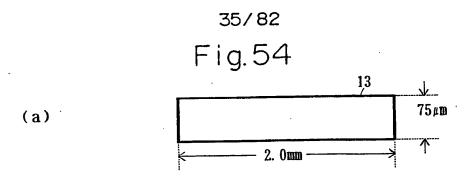


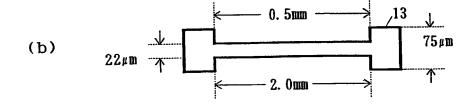


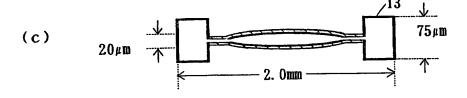


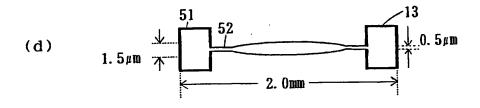


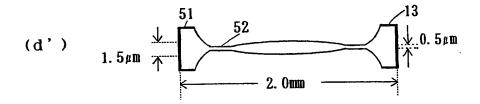








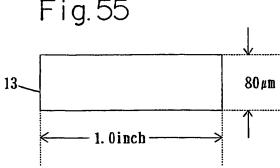




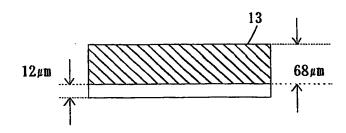




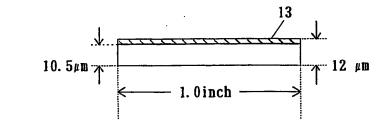
(a)

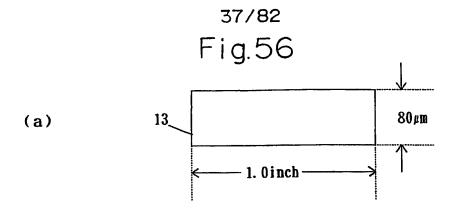


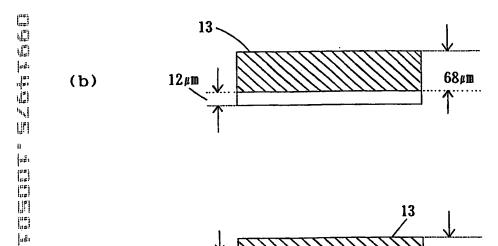
(b)



(c)







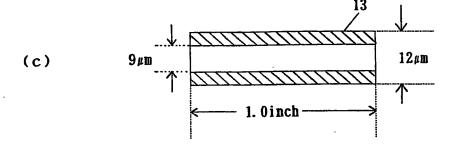


Fig. 57

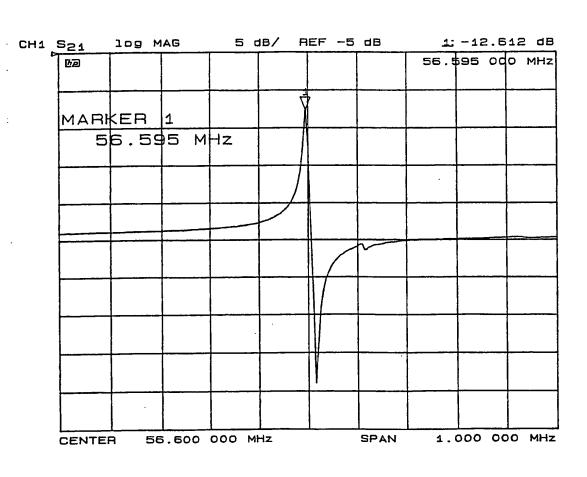


Fig. 58

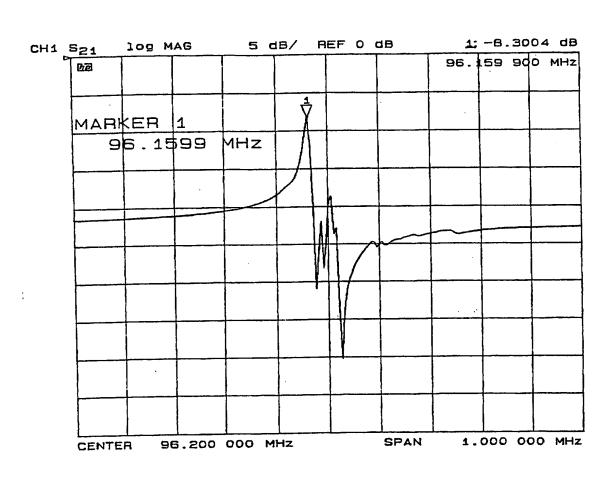


Fig. 59

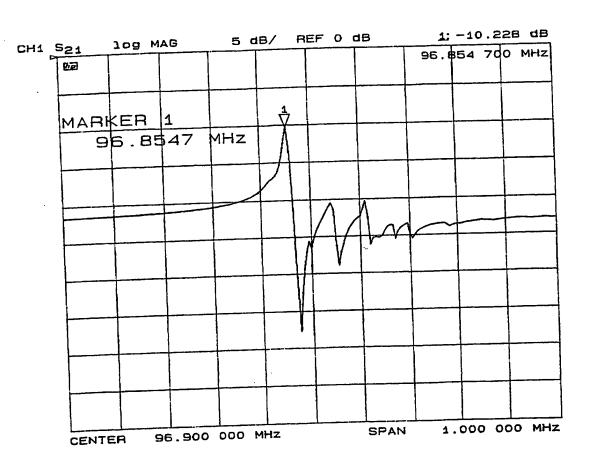
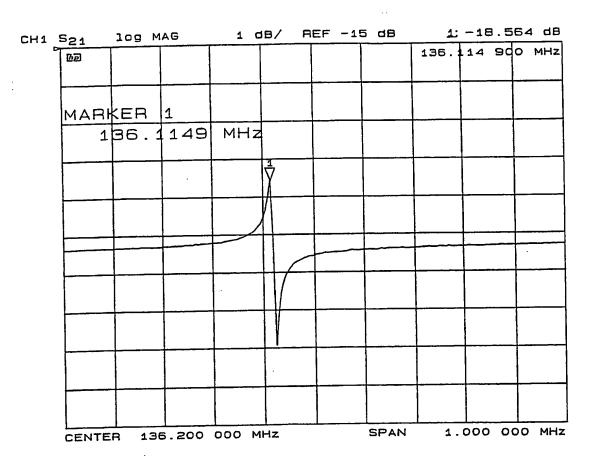
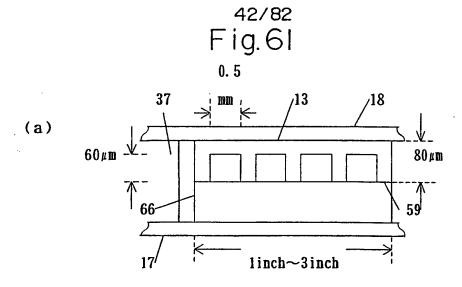
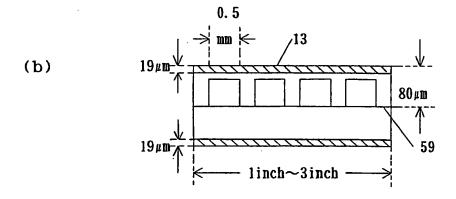
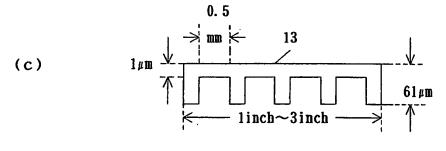


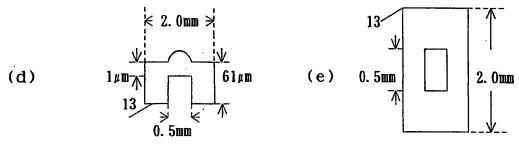
Fig.60

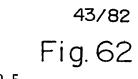


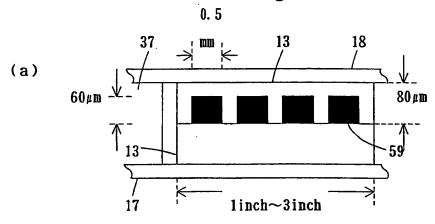


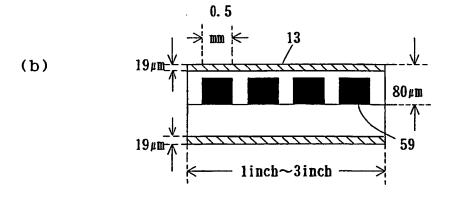


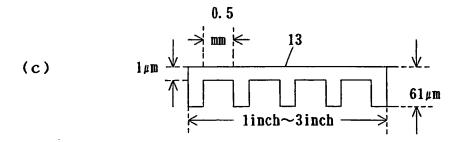


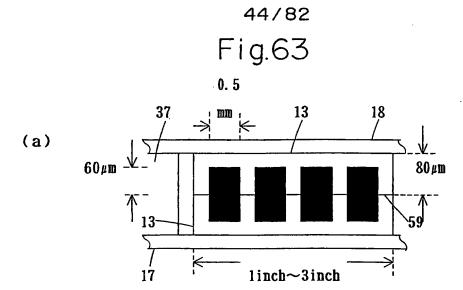


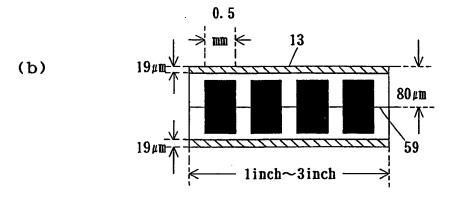


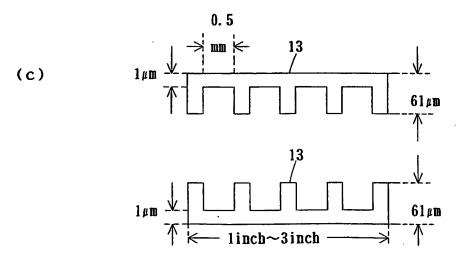


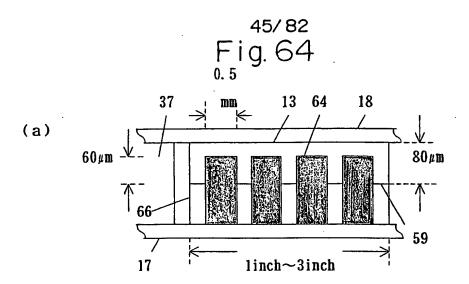


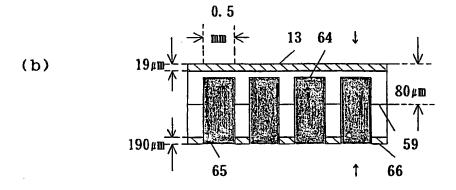


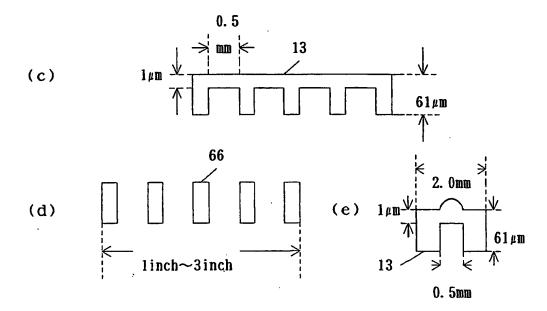


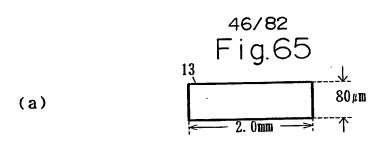


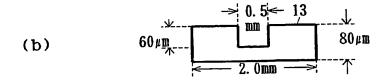


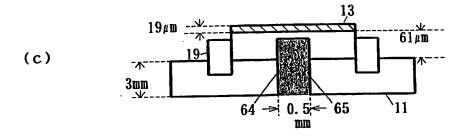


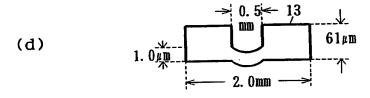


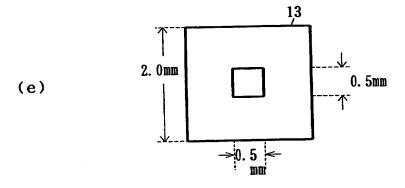


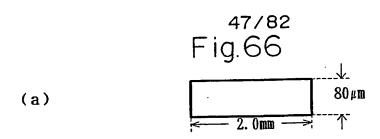


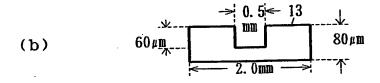


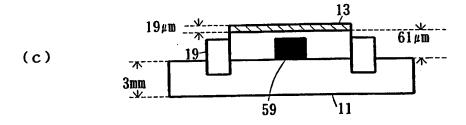


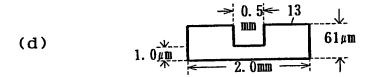


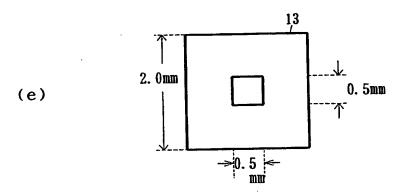


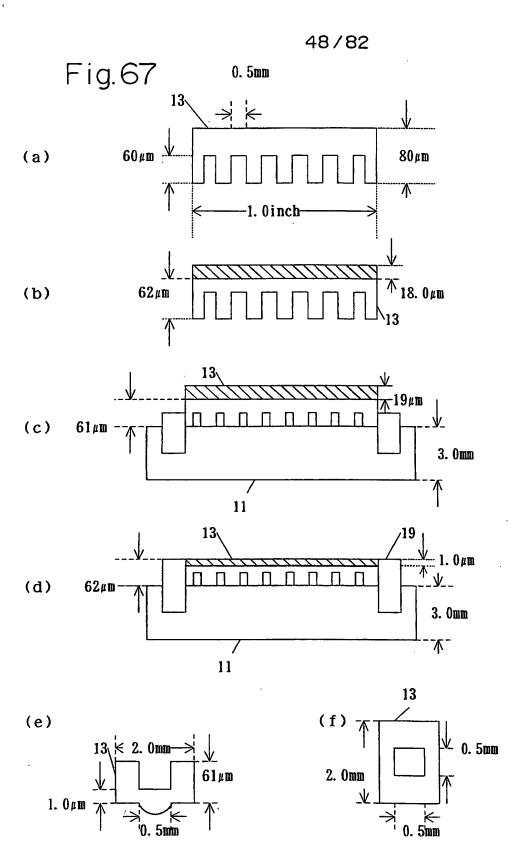


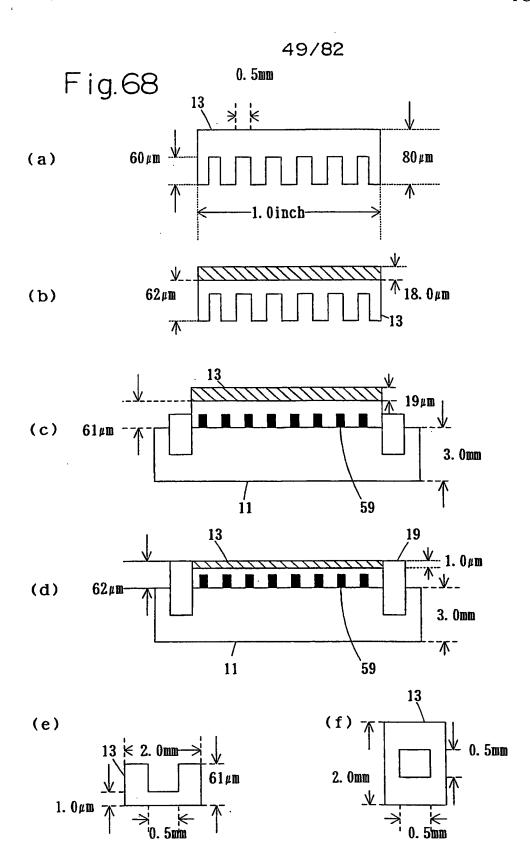




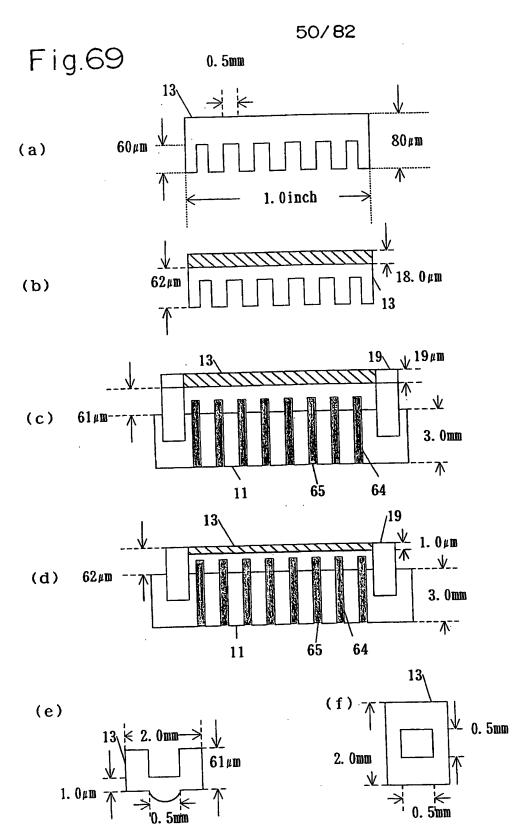


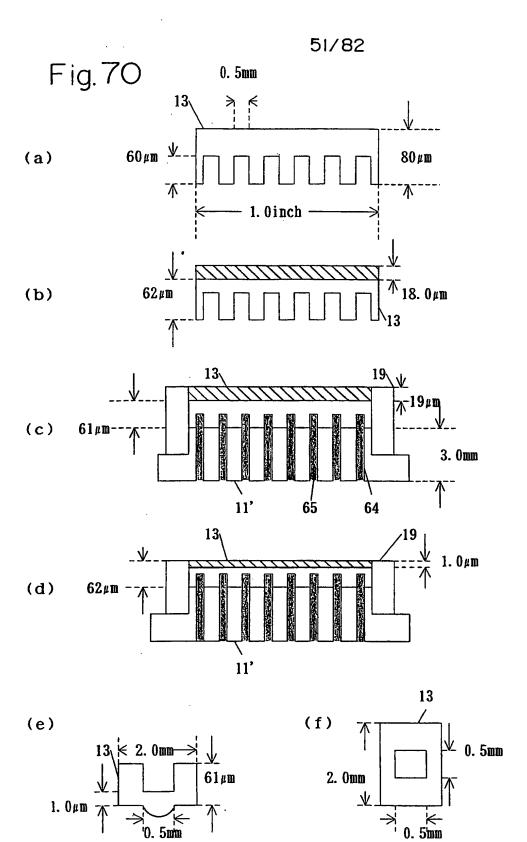


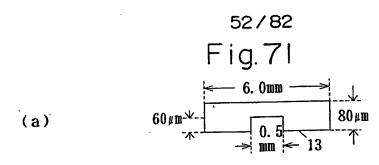


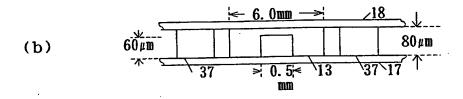


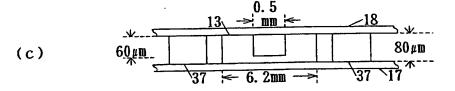


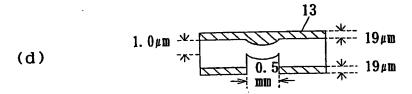


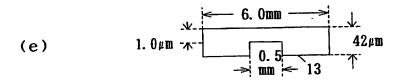


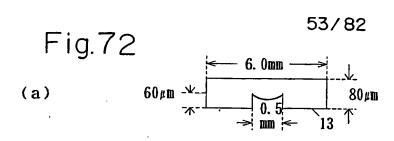


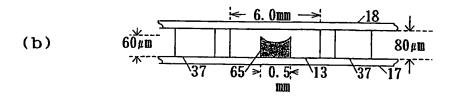


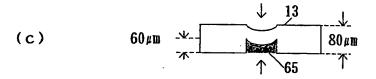


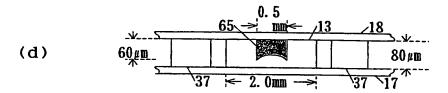


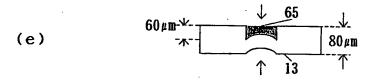


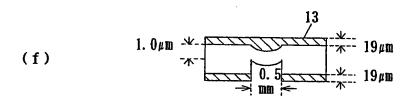


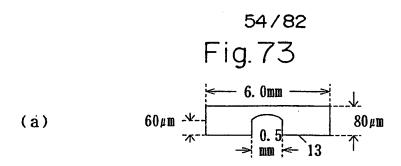


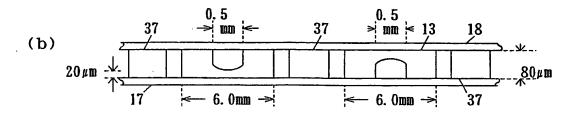


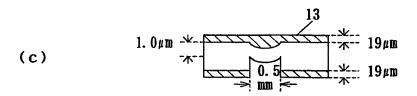


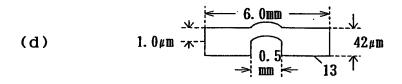


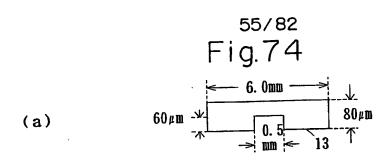


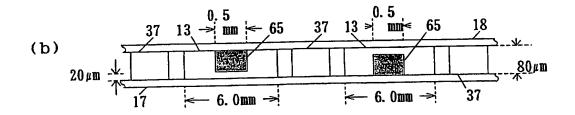


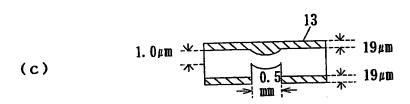


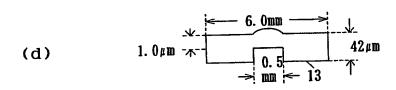




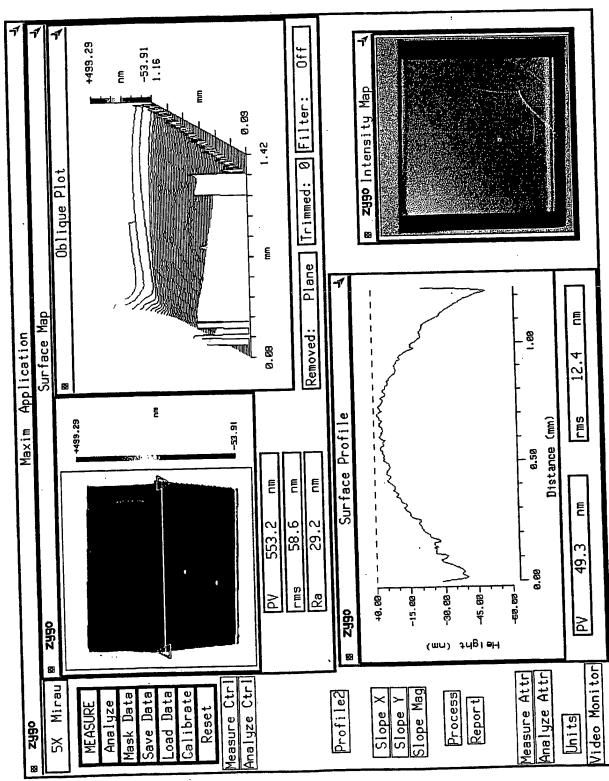








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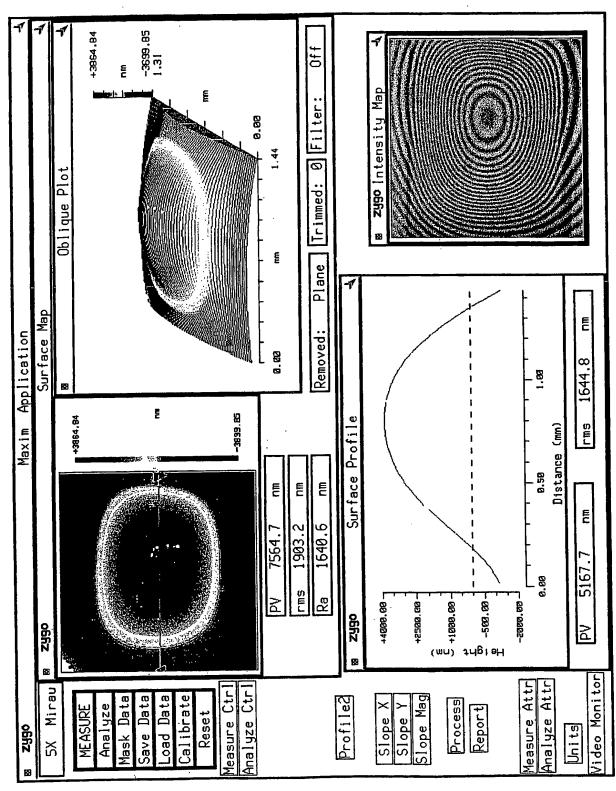


Fig. 77

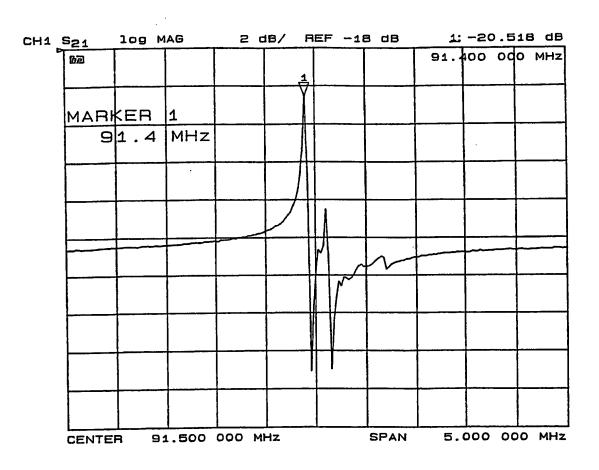
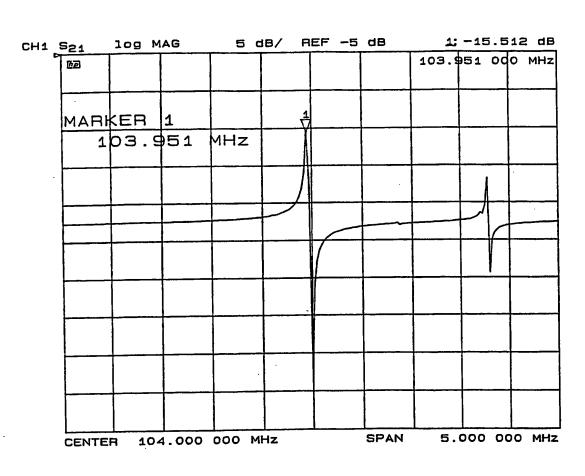
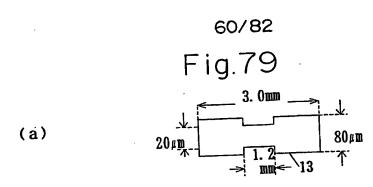
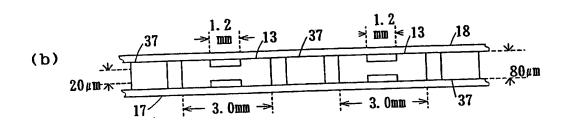
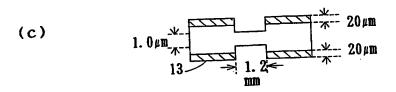


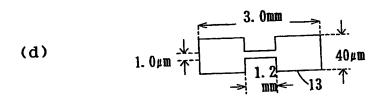
Fig. 78

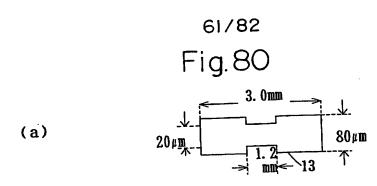


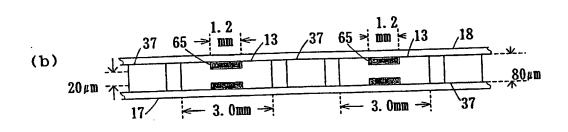


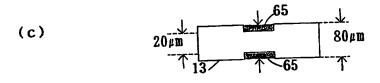


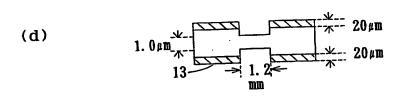


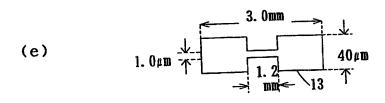


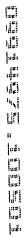


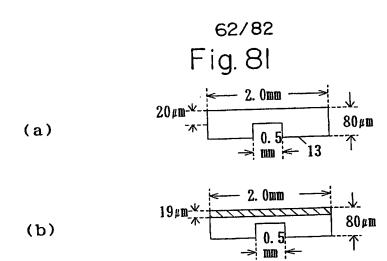


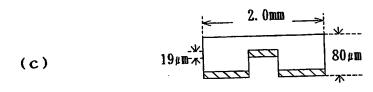


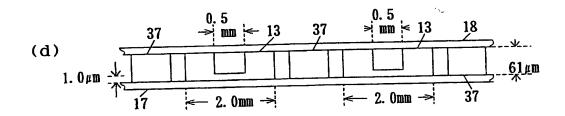












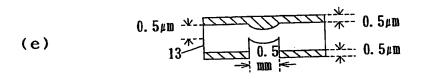
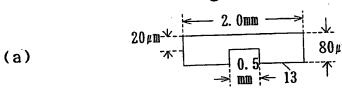
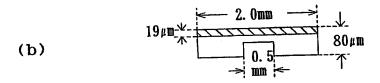


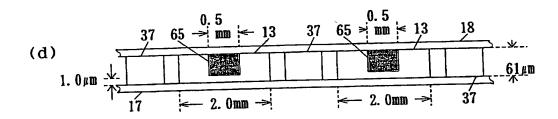


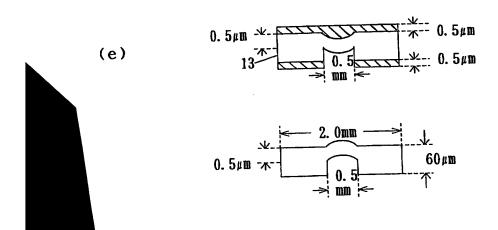
Fig. 82

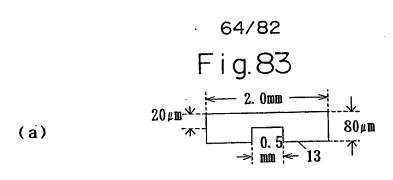


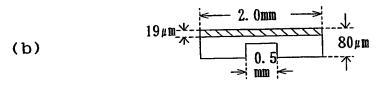


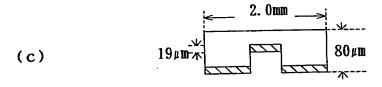


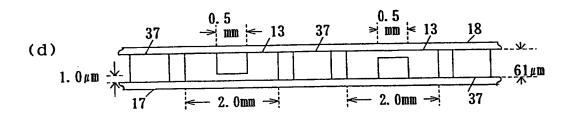












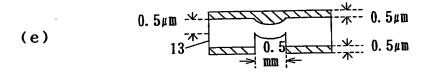


Fig. 84

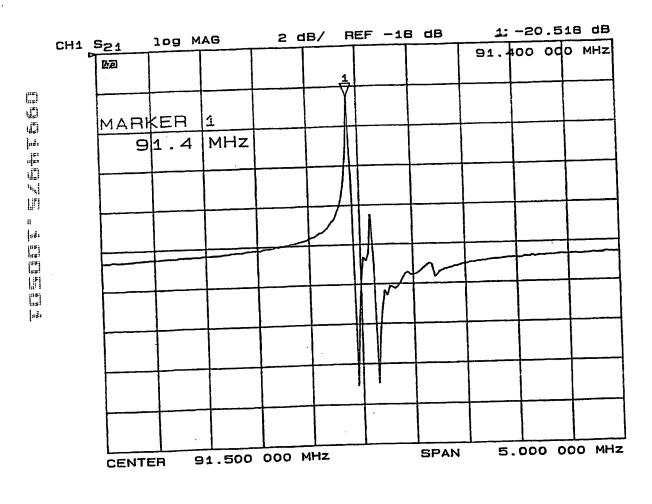


Fig. 85

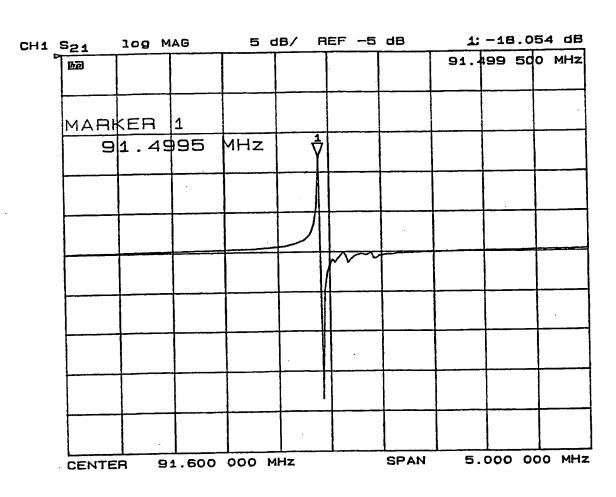
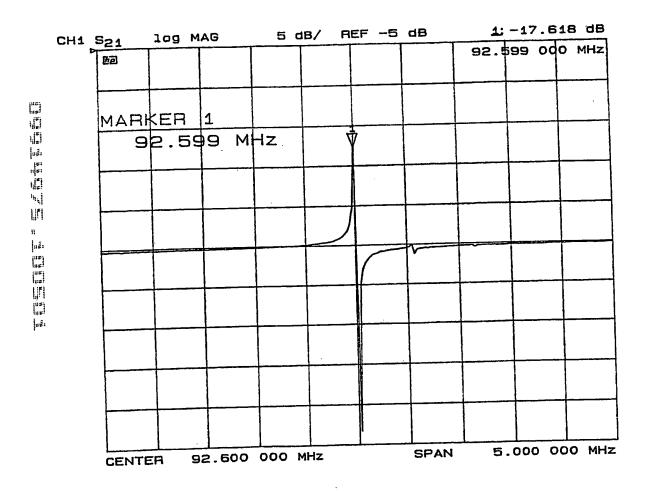
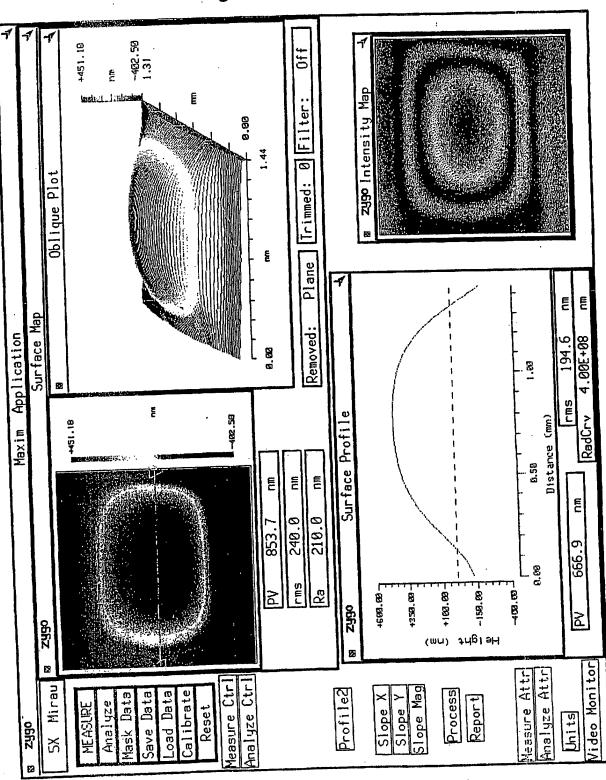


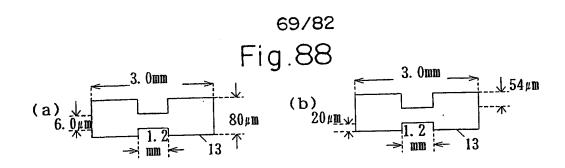
Fig. 86

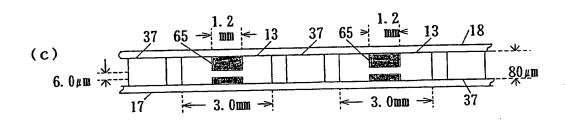


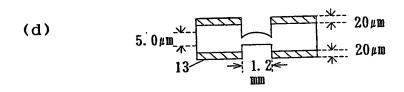
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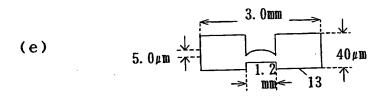
Fig.87

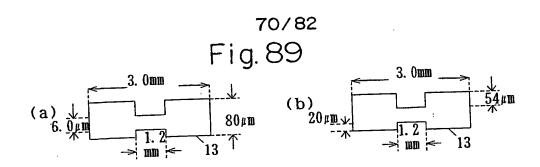


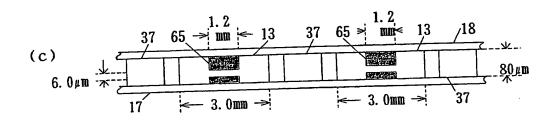


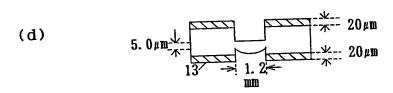


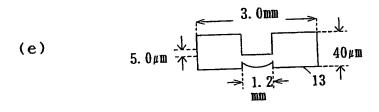


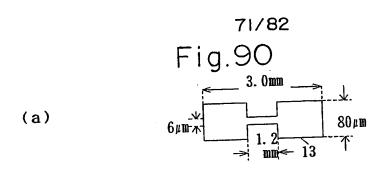


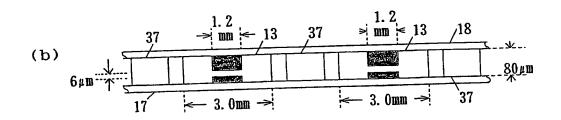


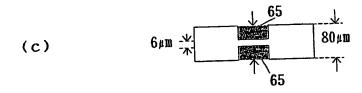


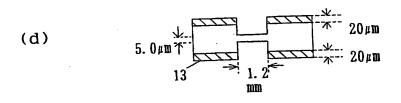


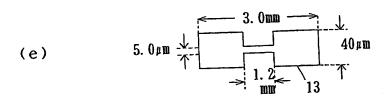


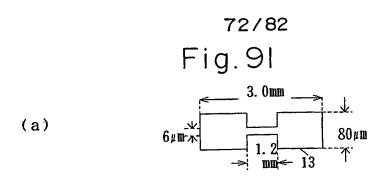


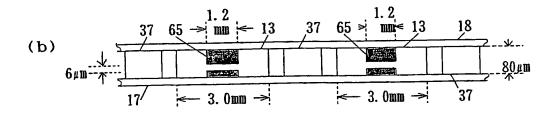


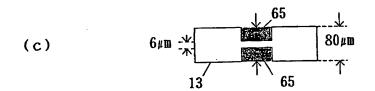












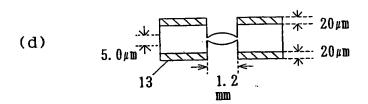
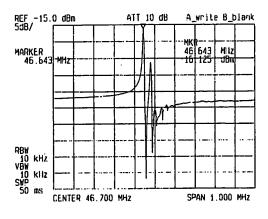
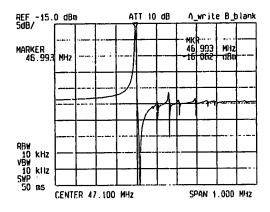


Fig.92



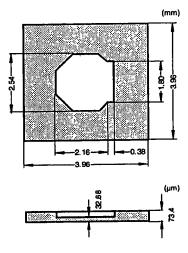
(a) RIE



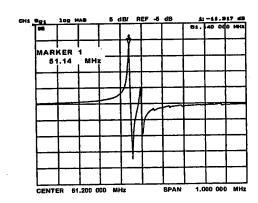
(b) Mechanical polishing after RIE

Fig. 1 Reactance-frequency characteristics RIE: RF power 240 w, Press. 6.7 Pa, Gas C₂F₆, 20 sccm

Fig.93



(a) Initial shape of machining material



(b) Reactance-frequency characteristics

Fig. 2 Machining material used

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Fig. 94

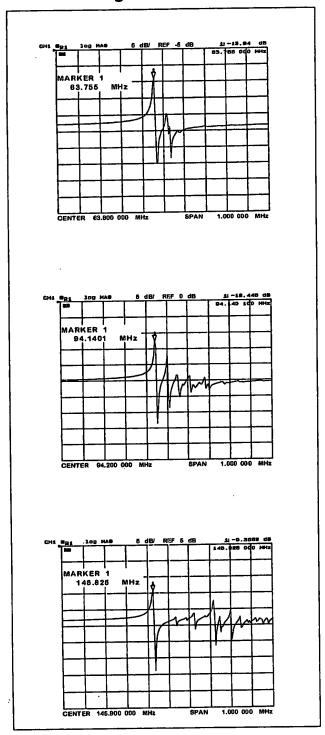


Fig. 3 Reactance-frequency characteristics of machining blanks after RIE

Fig. 95

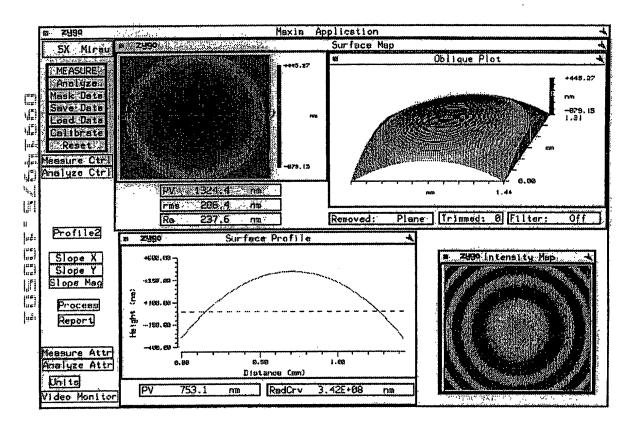
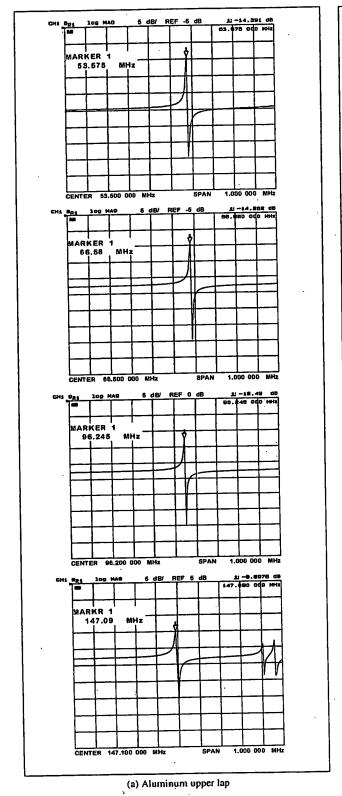


Fig. 4 Measured shape of the flat side oscillating part of the single inverted mesa type quartz blank by using an interference microscope

Fig. 96



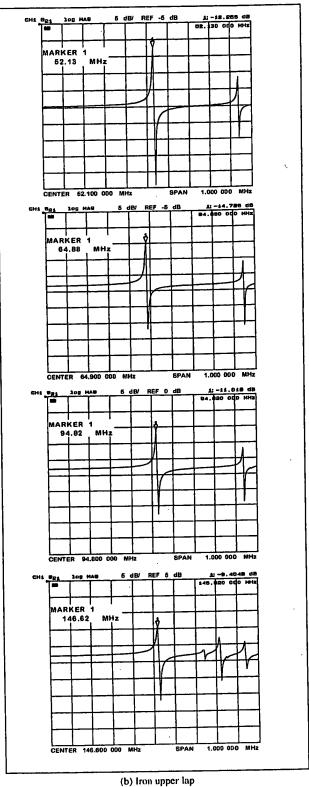


Fig. 5 Reactance-frequency characteristics of blanks polished

Fig.97

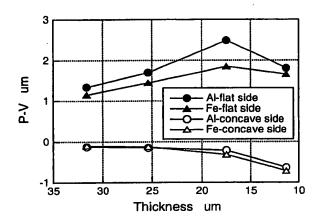


Fig. 6 Peak to valley of the central oscillating part

Fig.98

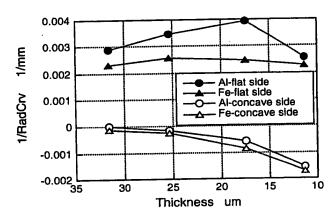


Fig. 7 Curvature radius of the central oscillating part



Fig.99

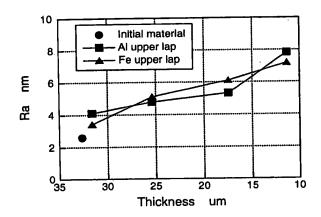


Fig. 8 Surface roughness at the central concave



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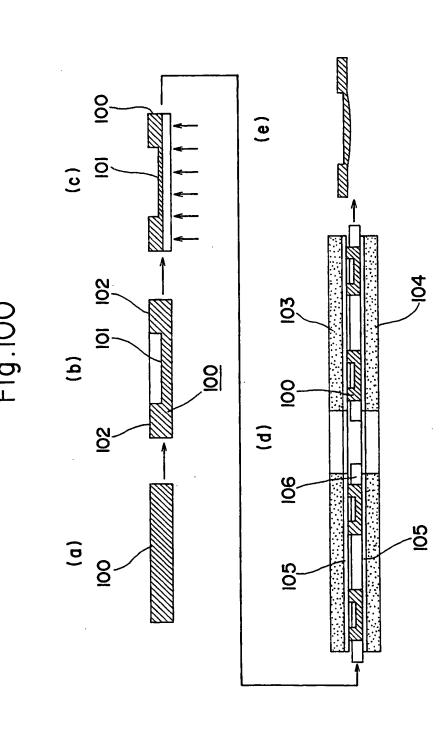
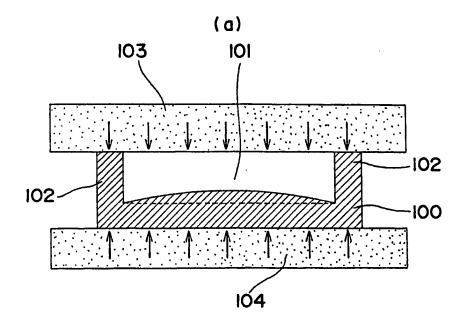


Fig.IOI



(b)

